SCA1600TB

SANY

TELESCOPIC BOOM CRAWLER CRANE

160 USt (145 mt)

196.5 ft (59.9 m)

247 ft (75.3 m)





Telescopic Boom Crawler Crane
SCA1600TB

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SCA1600TB
TELESCOPIC BOOM CRAWLER CRANE
160 UST (145 MT) LIFTING CAPACITY

MADE FOR AMERICA

Main Features

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Product Specification

Engine
- Model: Cummins L9-C325, Stage V.
- Type: 4-stroke, water-cooled, vertical in-line 6 cylinder, direct injection, turbo-charger, intercooler.
- Displacement: 543 in^3 (8.9L).
- Max Rated power: 325 HP/1800rpm.
- Max. torque: 1126 ft-lb/1500rpm.
- Cooling system: Temperature-adjustable, pressurized water cycle system.
- Starter: 24V-6.7HP.
- Radiator: Fin type with aluminum core.
- Air cleaner: Dry type main filter element, safety element core and resistance indicator.
- Throttle: Foot pedal, electrically controlled.
- Fuel filter: Replaceable paper element.
- Batteries: Two 12V×180Ah capacity batteries, connected in series. (24V system)
- Fuel tank capacity: 105.7Gal (400L).

Hydraulic System
- Main pump: Open loop system with variable displacement piston pump.
- Swing pump: Closed loop system with variable displacement piston pump.
- Control: Electrically controlled positive hydraulic flow control allows for safe and precise multifunction operation.
- Oil Cooler: Fan cooled heat exchanger provides multi stage hydraulic oil cooling.
- Filter: Peak flow, high efficiency filter with bypass valve and replacement filter indicator. Indicator will remind user when its time to replace filter.
- Max. pressure of system:
  Main load, aux. load, and travel system: 4641psi.
  Boom hoist cylinder lifting: 4641psi.
  Swing system: 3481psi.
  Control system: 653psi.
- Hydraulic tank capacity: 264.2Gal (1000L).

Main and Aux. Hoist Winch
- Pump and motor: Variable displacement hydraulic motor is load sensing and adjust automatically to provide high line speed while maintaining line pull.
- The maintenance-free wet brake ensure safe winch operation.
- Rotation resistance rope provides safe load lifting and long service life.
- Main and aux. winches are driven by variable displacement pump, variable speed hydraulic motor and gear box.
- Winch drum laggings are grooved for multilayer spooling

Main Hoisting Winch	Rope speed on the outermost work layer	0~446.2ft/min (0~136m/min)
	Wire rope diameter	0.87" (Φ22mm)
	Wire rope length of main hoist	918.6' (280m)
	Rated single line pull	20.9Klb (9.5t)

Auxiliary Hoisting Winch	Rope speed on the outermost work layer	0~446.2ft/min (0~136m/min)
	Wire rope diameter	0.87" (Φ22mm)
	Wire rope length of auxiliary hoist	623.4' (190m)
	Rated single line pull	20.9Klb (9.5t)

Boom Hoist
- Dual-acting single piston hydraulic cylinder, with counterbalance valve provides safe and efficient boom operation. Boom angle range of -2.1°~ 81.5°.

Swing Mechanism
- Swing brake: Spring applied wet brake that is normally closed providing controlled smooth braking.
- Swing system has free swing and auto brake mode. Swing brake is automatic applied when control lever is in neutral to prevent movement during travel and transportation.
- Swing Drive: External gear swing drive with 360° swing range, max. swing speed is 1.5 rpm.
- House lock: Four position house lock.
- Swing bearing: Double row roller bearing.

Product Specification

Counterweight
- Counterweight tray and blocks nest together for easy assembly and transport. Rear and carbody counterweights can be self-assembled. Rear Counterweight Total 79.4 Klb (36mt): counterweight tray 22.05Klb (10mt), counterweight A 17.64 Klb (8mt) x 2, counterweight B 5.51Klb (2.5mt) x 4.
- Carbody counterweight Total 22.05 Klb (10mt): 11 Klb (5mt) x 2 at front and rear of carbody.

Upperworks
- High-strength steel weld framework. Design allows for easy maintenance and service.

Cab and Control
- New spacious operator's cab has a lockable sliding door and large areas of high strength tempered glass providing the operator a wide field of vision. The cab tilts up to 25° providing operator a panorama view and reducing fatigue. Cab features push button start, wireless key fob, Bluetooth radio, and cellphone charging port. The cab and control layout allow for ergonomic operation keeping the operator comfortable.
- Monitor: Bright 12" touchscreen with an improved user friendly interface.
- Armrest console: Dual axis control levers are located on the left and right. Armrest console can be adjusted independent of the seat.
- Seat: multi-way adjustable floating seat.
- HVAC: powerful air conditioner and heater with optimized vent locations.
- Cameras: multiple cameras can be displayed on the monitor at the same time. This provides the operator with a real time view of winches, right side of machine, rear of machine , and view from boom tip.

Crawler Assembly
- Each side frame is equipped with an independent motor with integrated wet type brake. The variable speed travel system is configured with two speed options. Low speed provides max tractive effort, while high speed provides fast job site transfer.
- Max travel speed is 1.2 mph;
- Max gradeability is 30%.

Side Frame Extension and Retraction
- The side frames can be extended and retracted via hydraulic cylinders using the wireless remote or cab controls.

Track Tensioning
- Track tensioning can be adjustable with hydraulic jack and shimming the guide wheel.

Track Shoe
- High strength 3 bar grouser shoes. Width 3.1' (950mm)

Track Roller
- Maintenance-free track roller.

Jack Cylinders
- Standard jack cylinders make jobsite transport easier.

Product Specification

Boom
- The six section boom is made of high strength steel structure with an U-shaped cross section. Basic boom length is 42.4' (12.92m) and the maximum length is 196.5' (59.9m).
- Each section can be pinned and telescopes using a single hydraulic cylinder.

Fixed Jib
- Bi-fold fixed jib with lengths of 30.8' (9.4m) and 50.9' (15.5m).
- Offset angle includes 0°, 15° and 30°.

Heavy Duty Jib
- Heavy duty jib length of 9.8ft (3m).
- Offset angle includes 30°, 45°.

Auxilliary Tip Extension
- Welding structure, connected with the boom through pin, and used for auxiliary hook operation.

Hook Block

Name	Capacity	No. of Sheaves	Weight	Notes
1	143UST (130mt)	7	5.27Klb (2.39mt)	Optional
2	110UST (100mt)	5	2.73Klb (1.24mt)	Optional
3	88UST (80mt)	5	2.29Klb (1.04mt)	Standard
4	33UST (30mt)	1	0.95Klb (0.43mt)	Optional
5	14UST (12.5mt)	Hook Ball	0.99Klb (0.45mt)	Standard

Main (Front) and Auxiliary (Rear) Winches - 7/8in (22mm) Rope										
	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
Layer	lb	kg	ft/min	m/min	ft/min	m/min	ft	m	ft	m
1	25357.1	11502	241.1	73.5	368.4	112.3	209.3	63.8	209.3	63.8
2	23635.1	10720.9	258.5	78.8	395.3	120.5	224.4	68.4	433.7	132.2
3	22132.3	10039.2	276.2	84.2	422.2	128.7	239.8	73.1	673.6	205.3
4	20809.1	9439	293.6	89.5	449.1	136.9	254.9	77.7	928.5	283.0

Wire Rope Application	Diameter		Type	Maximum Permissible Load	
	in	mm		lb	kg
Main (Front) Winch	7/8	22	35W×K7 rotation resistant-right lang lay (Type ZZ)	20900	9480
Auxiliary (Rear) Winch	7/8	22	35W×K7 rotation resistant-right lang lay (Type ZZ)	20900	9480

Safety Device

Load Moment Indicator (LMI)
- The proprietary load moment indicator is independently developed by Sany, which is a specially designed over-load protective system for SCA series crawler cranes. This system maximizes the efficiency of the crane while maintaining safe operation.
- The LMI can automatically detect the load weight, work radius, and boom angle, compare rated capacity with actual load, actual radius and actual boom angle.
- In normal operation, the LMI can intelligently determine and cut off the crane from dangerous operation. It also has a black box function and record overload information.
- LMI consists one 12' (305mm) large colorful touchscreens, computer, angle sensors, load sensors and pressure sensors.

Assembly / Work Mode Control Switch
- In assembly mode, some of the safety devices are bypassed for helping crane assembly, for example, jib lower limit, boom angle limit and overload.
- In work mode, all safety devices are active

Emergency Stop
- When this button is pressed power supply to whole machine is cut off and all actions are stopped.

Over-hoist Protection of the Main / Auxiliary Hooks
- A2B is used to prevent the over-hoist of the hook. When the lifting hook is raised to a certain height, the limit switch is activated, and hook hoisting will be automatically cut off by the control system. Warning will be displayed in monitor and alarm will sound. At this moment, only hook lowering is allowed to prevent over-hoist action.

Over-release Protection Device of the Main / Auxiliary Winch
- The 3rd-wrap indicator is installed on main and aux. load hoist to prevent over-release of wire rope. When the wire rope is released to the last three wraps, the limit switch will activate, and the releasing of rope will be automatically stopped by the control system. Warning will be displayed in monitor and alarm will sound. At this moment, only rope retraction is allowed to prevent over release action.

Safety Device

Hydraulic Function Lock
- If the function lock level is not in work position, all the hydraulic control joysticks are bypassed, which prevents any mis-operation caused by control joystick movement.

House Lock
- 4 position mechanical lock by hydraulic pin. Locks upperworks to the carbody.

Hook Latch
- Hook blocks and ball have a safety latch..

Tri-color Load Indicator
- The load indication light has three colors, green, yellow and red, and the real time load status is presented on the display. When the actual load is smaller than 90% of rated load, the green light is on.
- When the actual load is larger than 90% and smaller than 100%, the yellow light is on, the alarm light flashes and sends out intermittent sirens.
- When the actual load reaches 100% of rated load, the red light is on, the alarm light flashes and sends out continuous sirens.
- When the actual load reaches 102% of rated load, the system will automatically cut off the crane operation.

Swing and Traveling Alarm
- During swing and traveling, the alarm will sound and light flashes to alert the personnel around the crane.

Seat Interlock Protection
- If the operator leaves the seat, all control levers will be deactivated to prevent any mis-operation due to accidental control handle movement.

Light Package
- The machine is equipped with lights at the front of the cab, in cab light , winch lights and adjustable boom lights to improve the visibility during operation.

Electronic Level Indicator
- List and trim angles are displayed in real time on the in cab monitor.

Camera System
- Standard high-definition cameras on boom tip, on each winch, at the rear of the upper. and left side of upper provide real time monitoring and ensure safe operation. Dual displays in cab can display four camera views at the same time. The boom tip camera can zoom in/out as needed.

Aircraft Warning Light (Pharos)
- Light mounted on the top of boom/jib that flashes at night.

Anemometer
- It is mounted on the top of the boom/jib and displays the wind speed in the monitor in the cab.

Engine Status Monitoring
- Shows the engine coolant temperature, fuel level, total working hours, engine oil pressure, engine speed, and battery voltage.

Wireless Remote Control
- Wireless remote control allows for safe and efficient assembly of the crane.

B

SCA1600TB
TELESCOPIC BOOM CRAWLER CRANE
160 UST (145 TONS) LIFTING CAPACITY

Technical Parameters

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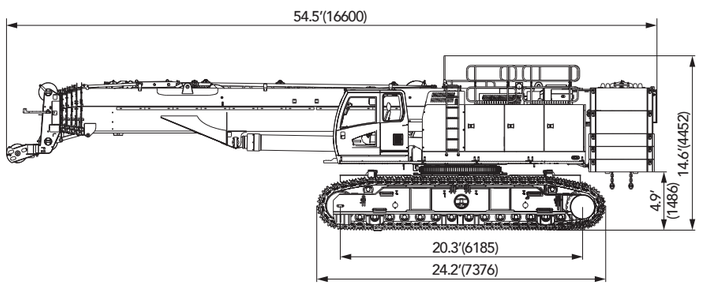
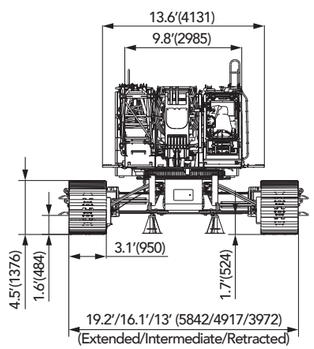
Main Performance Parameters

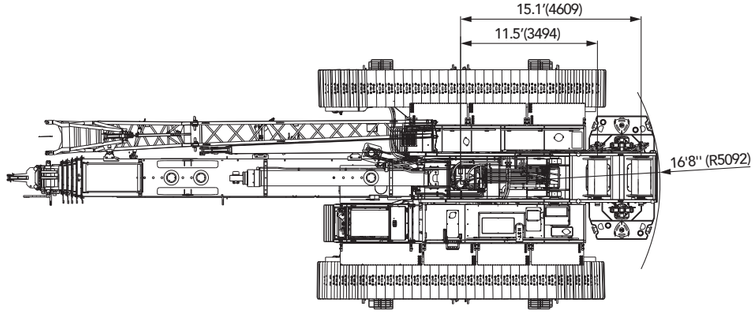
Main Performance Parameters of SCA1600TB			
Performance Indicators		Unit	Parameter
H	Max. rated lifting capacity	USt (mt)	160 (145)
	Boom length	ft (m)	42.4~196.5 (12.92~59.9)
	Boom angle	°	-2.1~81.5
	Max. rated lifting moment	Klb·ft (t·m)	3472 (480)
FJ	Longest main boom + longest jib	ft (m)	196.5+50.9 (59.9+15.5)
	Offset angle	°	0, 15, 30
FJh	Longest main boom + longest jib	ft (m)	196.5+9.8 (59.9+3)
	Offset angle	°	30, 45
Speed	Rope speed of main/aux. winch (the outermost work layer)	ft/min (m/min)	0~446.2 (0~136)
	Time to fully boom up/down	s	90/90
	Swinging speed	rpm	0~1.5
	Travel speed	mph	0~1.2
Wire Rope	Diameter	in (mm)	0.87 (Φ22)
Engine	Model	/	L9-C325 242 kW stage V
	Rated power/speed	HP/rpm	325/1800
Transport	Operating weight	Klb (t)	274.4 (124.4)
	Basic machine weight	Klb (t)	98.3 (44.58)
	Transportation dimension (L×W×H)	ft (mm)	53×9.8×10.8 (16160×2990×3298)
Other Parameters	Average ground pressure	PSI	17.4
	Min. swing radius	ft (mm)	16.7 (5092)

Unit: ft (mm)

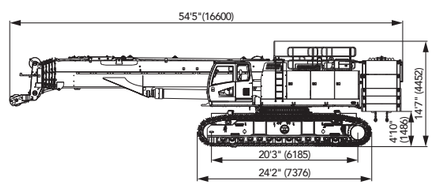
Dimensions

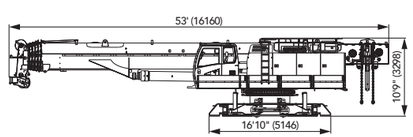


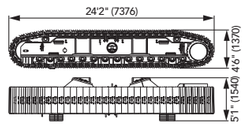


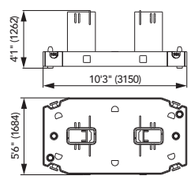


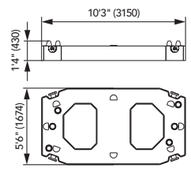
Transport Dimension

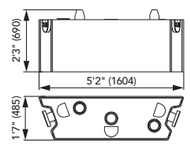












Basic Machine (with side frame, main & aux. winches and wire ropes, fly jib and aux. lifting sheave and full counterweights)	×1
Length (L)	54.5ft (16.6m)
Width (W)	19.2ft (5.86m)
Height (H)	14.6ft (4.45m)
Weight	274.40Klb (124.4mt)

Basic Machine (with main & aux. winches, wire rope and aux. lifting sheave, without fly jib)	×1
Length (L)	53ft (16.16m)
Width (W)	9.8ft (2.99m)
Height (H)	10.8ft (3.29m)
Weight	98.3Klb (44.58mt)

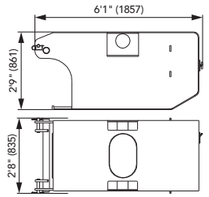
Side Frame	×2
Length (L)	24.2ft (7.38m)
Width (W)	5.1ft (1.54m)
Height (H)	4.5ft (1.37m)
Weight (With 3 bar grousers)	34.83Klb (15.8mt)
Weight (With flat pads)	36.6Klb (16.6mt)
Weight (Nylon inserts for 3 bar grouser)	1.08Klb (0.49mt)

22.05 Klb Counterweight Tray	×1
Length (L)	10.3ft (3.15m)
Width (W)	5.5ft (1.68m)
Height (H)	4.1ft (1.26m)
Weight	22.05Klb (10mt)

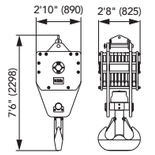
17.64 Klb Rear Counterweight A	×2
Length (L)	10.3ft (3.15m)
Width (W)	5.5ft (1.67m)
Height (H)	1.4ft (0.43m)
Weight	17.64Klb (8mt)

5.51 Klb Rear Counterweight B	×4
Length (L)	5.3ft (1.60m)
Width (W)	1.6ft (0.49m)
Height (H)	2.3ft (0.69m)
Weight	5.51Klb (2.5mt)

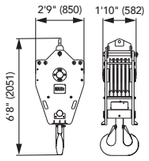
Transport Dimension



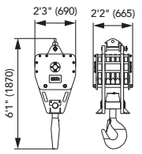
11.02 Klb Carbody Counterweight	×2
Length (L)	6.1ft (1.86m)
Width (W)	2.7ft (0.84m)
Height (H)	2.8ft (0.86m)
Weight	11.02Klb (5mt)



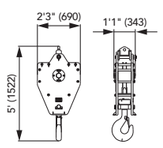
143 USt (130mt) Hook Block	×1
Length (L)	2.9ft (0.89m)
Width (W)	2.7ft (0.83m)
Height (H)	7.5ft(2.30m)
Weight	5.27Klb (2.39mt)



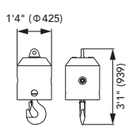
110 USt (100mt) Hook Block	×1
Length (L)	2.8ft (0.85m)
Width (W)	1.9ft (0.58m)
Height (H)	6.7ft (2.05m)
Weight	2.73Klb (1.24mt)



88 USt (80mt) Hook Block	×1
Length (L)	2.3ft (0.69m)
Width (W)	2.2ft (0.67m)
Height (H)	6.1ft (1.87m)
Weight	2.29Klb (1.04mt)

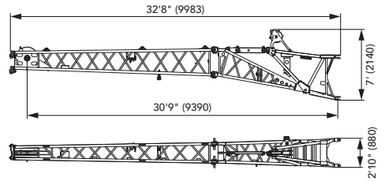


33 USt (30mt) Hook Block	×1
Length (L)	2.3ft (0.69m)
Width (W)	1.1ft (0.34m)
Height (H)	5.0ft (1.52m)
Weight	0.93Klb (0.42mt)

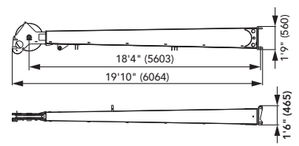


14 USt (12.5mt) Hook Ball	×1
Length (L)	1.4ft (0.43m)
Width (W)	1.4ft (0.43m)
Height (H)	3.1ft (0.94m)
Weight	0.97Klb (0.44mt)

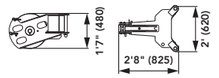
Transport Dimension



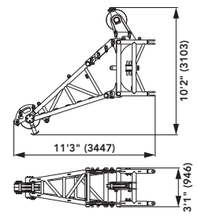
30.8 ft (9.4m) Fixed Jib Base	×1
Length (L)	32.7ft (9.98m)
Width (W)	2.9ft (0.88m)
Height (H)	7ft (2.14m)
Weight	2.38Klb (1.08mt)



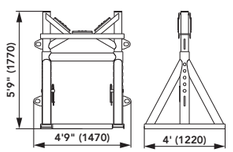
20 ft (6.1m) Fixed Jib Tip	×1
Length (L)	19.9ft (6.06m)
Width (W)	1.5ft (0.47m)
Height (H)	1.8ft (0.56m)
Weight	0.93Klb (0.42mt)



Aux. Tip Extension	×1
Length (L)	2.7ft (0.83m)
Width (W)	2ft (0.62m)
Height (H)	1.6ft (0.48m)
Weight	0.24Klb (0.11mt)



9.8 ft (3m) Heavy Duty Jib	×1
Length (L)	11.3ft (3.45m)
Width (W)	3.1ft (0.95m)
Height (H)	10.2ft (3.10m)
Weight	2.16Klb (0.98mt)

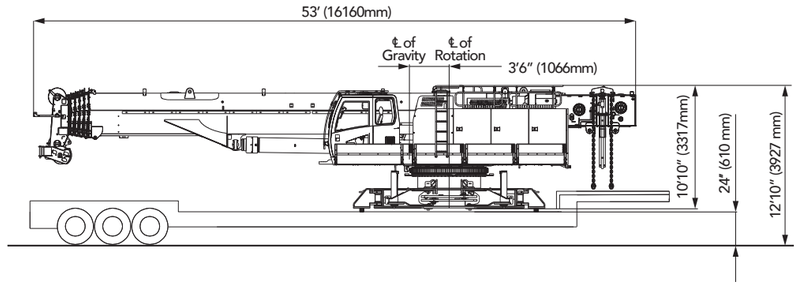


Boom Support Bracket	×1
Length (L)	4.8ft (1.47m)
Width (W)	4ft (1.22m)
Height (H)	5.8ft (1.77m)
Weight	0.88Klb (0.40mt)

Transport Plan

■ Transport Dimensions:

Basic Machine (with main & aux. winches, wire rope and aux. lifting sheave, without fly jib): **98.3 Klb (44580kg)**

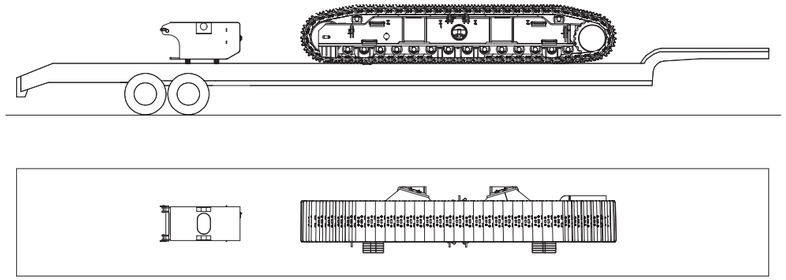


Item	Weight		Dimension	Trailer				
	lbs	kg	(L×W×H)	1	2	3	4	5
Basic Machine (with 2 winches, boom, wire rope, aux. nose sheave)	98300	44580	53'×9.8'×10.8'	×				
Left Side Frame	33962	15400	24.2'×5.1'×4.1'		×			
Right Side Frame	33962	15400	24.2'×5.1'×4.1'			×		
Counterweight Tray	22046	10000	10.3'×5.5'×4.1'				×	
Rear Counterweight A - 1 Piece	17637	8000	10.3'×5.5'×1.4'					×
Rear Counterweight A - 1 Piece	17637	8000	10.3'×5.5'×1.4'					×
Rear Counterweight B - 1 Piece	5511	2500	5.3'×1.6'×2.3'				×	
Rear Counterweight B - 1 Piece	5511	2500	5.3'×1.6'×2.3'				×	
Rear Counterweight B - 1 Piece	5511	2500	5.3'×1.6'×2.3'				×	
Rear Counterweight B - 1 Piece	5511	2500	5.3'×1.6'×2.3'				×	
Carbody Counterweight - 1 Piece	11023	5000	6.1'×2.7'×2.8'		×			
Carbody Counterweight - 1 Piece	11023	5000	6.1'×2.7'×2.8'			×		
Bi-fold Fly Jib	3307	1500	32.7'×2.9'×7'					×
Heavy Duty Jib	2160	980	11.3'×3.1'×10.2'					×
Hook Block - 88 USt	2293	1040	2.3'×2.2'×6.1'					×
Hook Block - 14 USt	970	440	1.4'×1.4'×3.1'					×
Total Net Weight On Trailer				98300	44985	44985	44090	44004

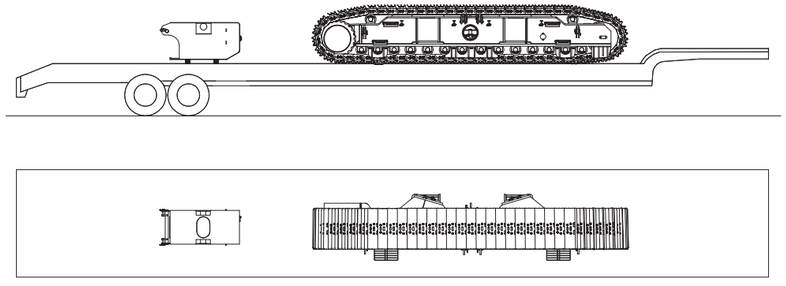
Notes:
Estimated weights vary by ± 2%.
Loads transported were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' drop deck.
This may vary depending on truck/trailer weight, style of trailer and state law.

Transport Plan

Left Side Frame + Carbody Counterweight: **44.98 Klb (20400kg)**

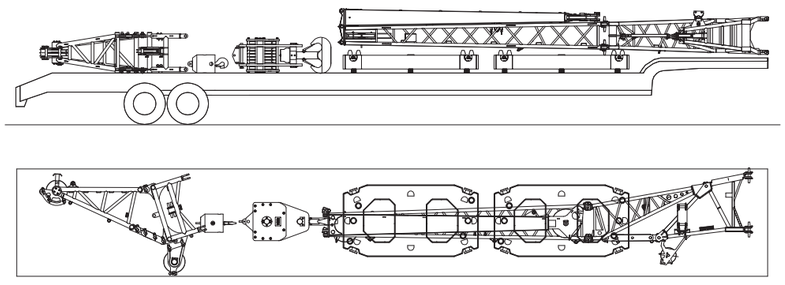


Right Side Frame + Carbody Counterweight: **44.98 Klb (20400kg)**

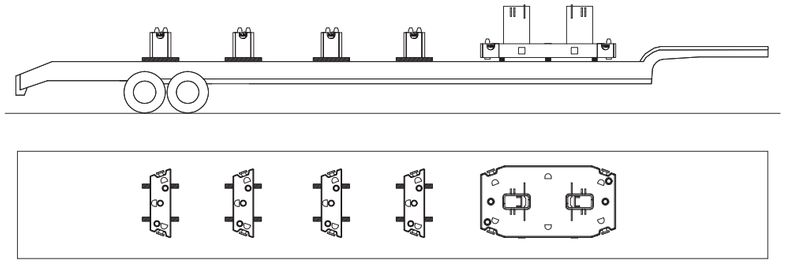


Transport Plan

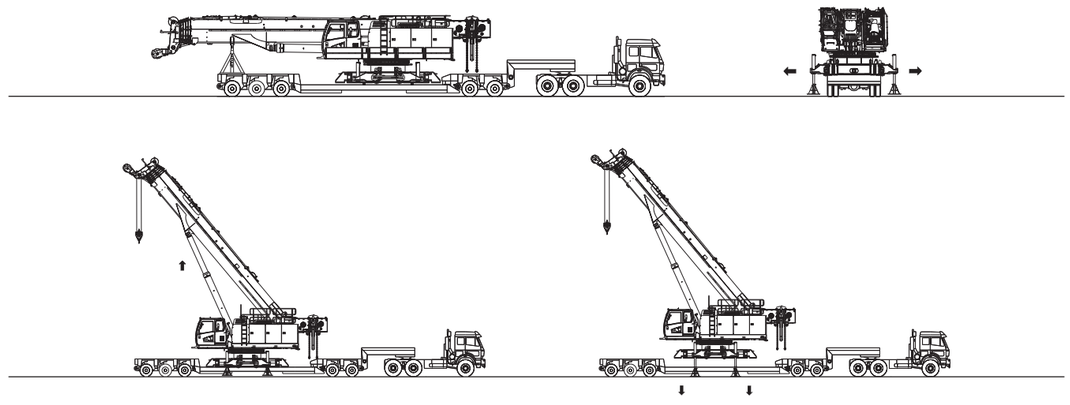
Rear Counterweight A×2 + Fly Jib + 143 USt Hook Block + 14 USt Hook Block + Heavy Duty Jib: **44 Klb (19600kg)**

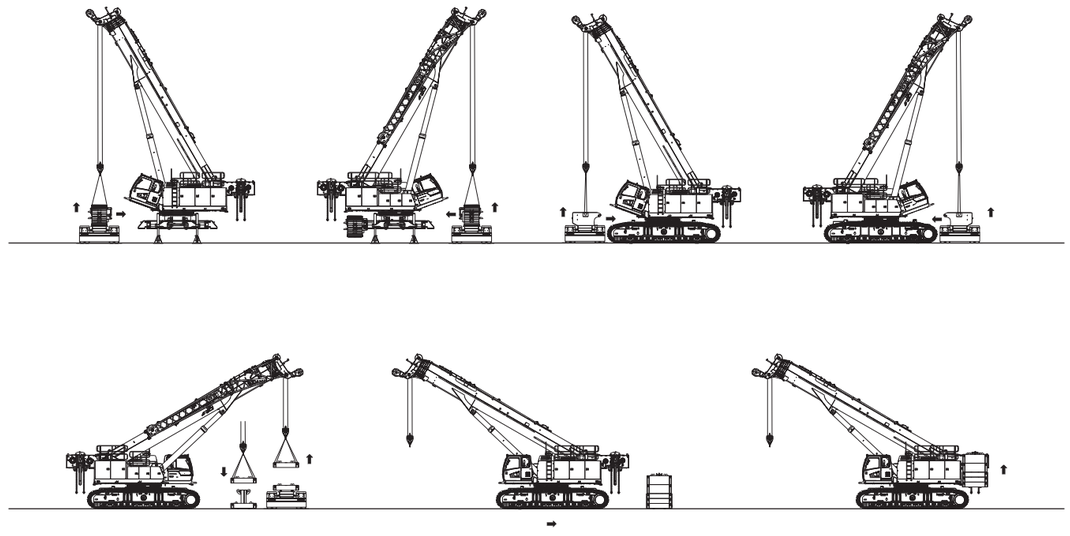


Rear Counterweight Tray + Rear Counterweight B×4: **44.1 Klb (20000kg)**



Self-Assembly Procedure





C

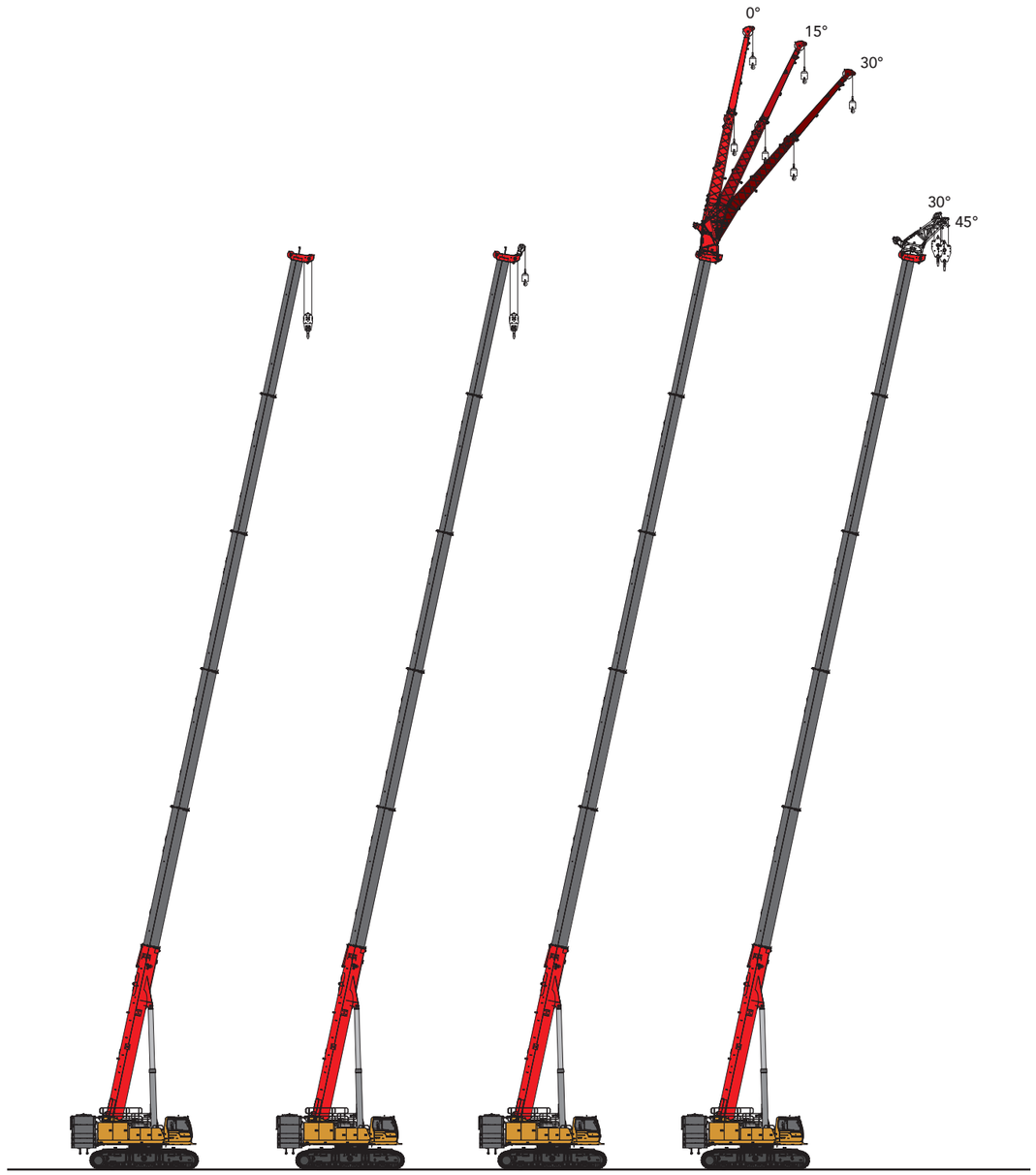
SCA1600TB
TELESCOPIC BOOM CRAWLER CRANE
160 UST (145 TONS) LIFTING CAPACITY

Boom and Jib Combinations

- Page 20 (H) Main Boom Operating Conditions
- Page 28 (HC) Auxiliary Lifting Sheave Operating Conditions
- Page 37 (FJ) Fly Jib Operating Conditions
- Page 40 (FJh) Heavy Lift Jib Operating Conditions

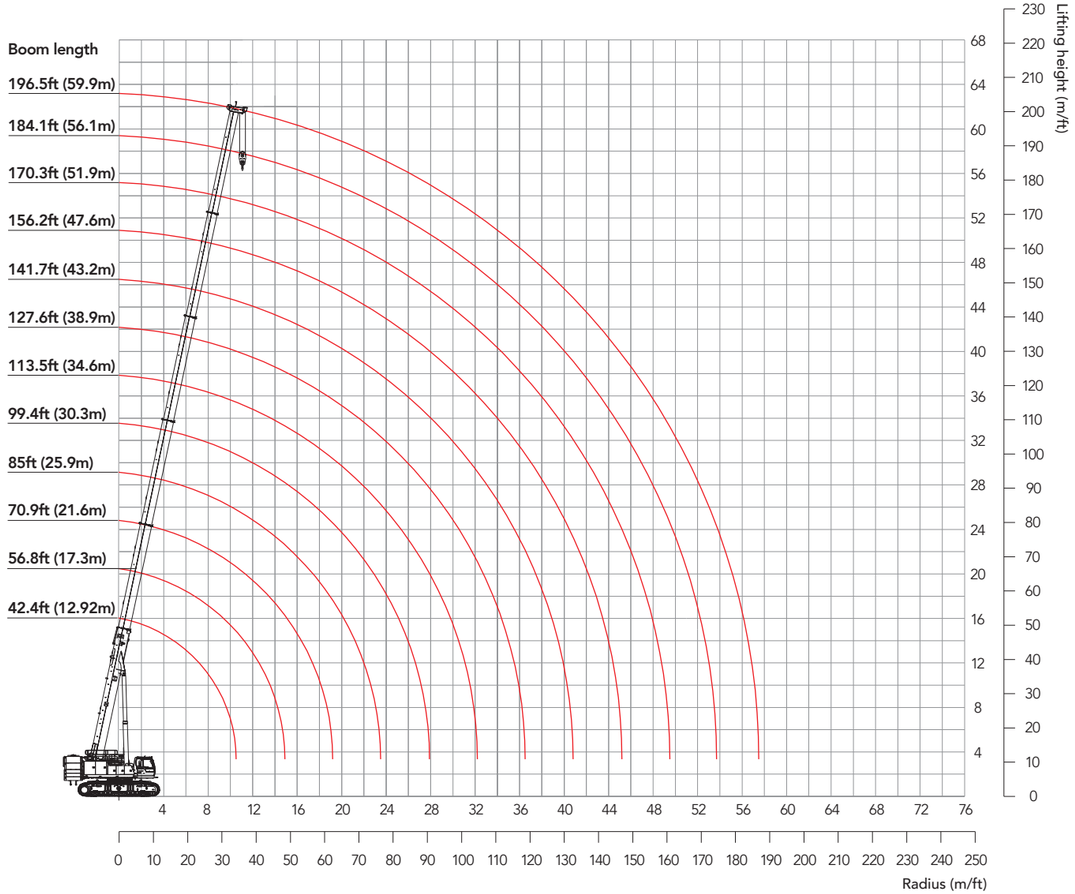
> 18

Boom and Jib Combinations



H Configuration	HC Configuration	FJ Configuration	FJh Configuration
42.4ft~196.5ft	44.91ft~199.1ft	196.5ft+50.9ft	196.5ft+9.8ft
(12.92m~59.9m)	(13.69m~60.68m)	(59.9m+15.5m)	(59.9m+3m)

(H) Main Boom Range Diagram



(H) Main Boom Load Chart

Unit: Klb

79.4Klb | 22.0Klb | Extended | 0.57° | 360°

ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
9	320.0												9
10	283.7	208.9											10
12	253.4	208.9	198.1										12
14	240.2	208.9	198.1										14
16	215.4	208.9	198.1	176.8									16
18	192.6	192.6	192.4	175.0	121.2								18
20	173.9	173.9	173.9	166.8	121.2	96.5							20
25	139.3	139.3	136.5	131.8	117.4	89.8	75.1						25
30	109.6	112.0	107.5	104.7	102.5	83.9	67.4	61.1	50.2				30
35		87.2	86.7	86.2	85.1	78.7	60.8	55.4	48.4	38.5			35
40		70.1	69.9	72.1	72.0	71.8	55.3	50.5	44.7	38.3	31.0	26.8	40
45		57.8	57.6	59.6	61.6	62.2	50.4	46.3	41.5	35.9	30.7	25.9	45
50			48.5	50.5	52.6	54.2	46.4	42.6	38.6	33.5	29.2	23.2	50
55			41.1	43.0	45.0	47.0	42.8	39.2	35.9	31.3	27.7	20.7	55
60				36.9	38.9	40.9	39.3	36.3	33.2	29.4	26.4	18.6	60
65				31.9	33.9	35.8	35.1	33.8	30.9	27.7	25.0	16.9	65
70				27.9	29.9	31.8	31.0	30.7	29.0	26.2	23.8	15.4	70
75					26.4	28.3	27.5	27.5	27.0	24.6	22.7	14.0	75
80					23.3	25.1	24.4	24.4	24.8	22.9	21.4	12.7	80
85					20.6	22.4	21.7	21.7	22.2	21.2	20.1	11.7	85
90						20.2	19.5	19.5	19.9	19.9	18.7	10.7	90
95						18.1	17.4	17.4	18.0	18.4	17.5	9.8	95
100						16.2	15.5	15.5	16.2	16.8	16.4	9.0	100
105							13.8	13.8	14.5	15.2	15.4	8.3	105
110							12.5	12.5	13.0	13.6	14.4	7.7	110
115							11.1	11.1	11.6	12.4	13.2	7.1	115
120								9.9	10.4	11.2	12.1	6.6	120
125								8.7	9.4	10.0	10.9	6.1	125
130								7.7	8.4	9.0	9.9	5.6	130
135									7.3	8.1	9.0	5.1	135
140									6.4	7.3	8.2	4.7	140
145										6.5	7.3	4.3	145
150										5.6	6.5	4.0	150
155										4.9	5.8	3.6	155
160											5.1	3.3	160
165											4.5	3.0	165
170											4.0	2.8	170
175												2.5	175
180												2.3	180
184												2.2	184
n	16	10	10	9	6	5	4	3	3	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#
Min	0	0	0	0	0	0	0	0	10	10	10	10	Min
Min ft	34.5	48.74	63	77.21	91.38	105.41	119.62	133.88	145.72	159.7	173.46	185.61	Min ft
Min Klb	49.8	32.1	20.9	16.5	13	10.8	6.6	4.1	0	0	0	0	Min Klb

(H) Main Boom Load Chart

Unit: Klb

57.32Klb | 22.05Klb | Extended | 0.57° | 360°

ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
10	208.9	208.9											10
12	208.9	208.9	198.1										12
14	208.9	208.9	198.1										14
16	208.9	200.5	182.4	167.1									16
18	192.6	175.6	158.5	147.7	121.2								18
20	167.6	153.8	139.8	131.5	119.8	96.5							20
25	116.1	114.9	106.5	101.7	97.9	89.8	75.1						25
30	84.6	85.9	83.9	81.4	79.3	77.8	67.4	61.1	50.2				30
35		66.8	66.1	67.0	66.1	65.4	60.6	55.4	48.4	38.5			35
40		53.5	52.9	54.4	55.8	55.8	52.5	50.3	44.7	38.3	31.0	26.8	40
45		43.9	43.2	44.8	46.6	48.1	45.5	43.8	41.5	35.9	30.7	25.9	45
50			36.1	37.7	39.5	41.2	39.6	38.5	37.4	33.5	29.2	23.2	50
55			30.3	31.9	33.6	35.3	34.3	33.7	33.2	31.3	27.7	20.7	55
60				27.2	28.8	30.5	29.6	29.4	29.3	29.2	26.4	18.6	60
65				23.2	24.9	26.7	25.8	25.6	25.9	26.3	25.0	16.9	65
70				20.0	21.8	23.4	22.5	22.4	22.9	23.5	23.5	15.4	70
75					19.0	20.6	19.7	19.7	20.1	20.8	21.5	14.0	75
80					16.6	18.2	17.3	17.3	17.7	18.4	19.1	12.7	80
85					14.4	16.2	15.3	15.3	15.7	16.4	17.0	11.7	85
90						14.3	13.4	13.4	13.9	14.5	15.3	10.7	90
95						12.7	11.8	11.8	12.2	12.9	13.8	9.8	95
100						11.2	10.4	10.3	10.8	11.4	12.3	9.0	100
105							9.2	9.0	9.4	10.1	11.0	8.3	105
110							8.0	8.0	8.3	8.9	9.8	7.7	110
115							7.0	7.0	7.2	7.9	8.7	7.1	115
120								6.0	6.2	6.9	7.8	6.6	120
125								5.0	5.4	6.1	6.9	6.1	125
130								4.3	4.6	5.2	6.1	5.6	130
135									3.9	4.5	5.4	5.1	135
140									3.2	3.8	4.7	4.6	140
145										3.2	4.1	4.1	145
150										2.7	3.4	3.6	150
155											2.8	2.9	155
n	10	10	10	8	6	5	4	3	3	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#
Min	0	0	0	0	0	0	0	0	10	10	10	10	Min
Min + ft	34.5	48.74	63	77.21	91.38	105.41	119.62	133.88	145.72	159.7	173.46	185.61	Min + ft
Min + Klb	49.8	32.1	20.9	16.5	13	10.8	6.6	4.1	0	0	0	0	Min + Klb

(H) Main Boom Load Chart

Unit: Klb

22.05Klb | 22.0Klb | Extended | 0.57° | 360°

ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
10	208.9	208.9											10
12	208.9	203.7	188.0										12
14	196.5	177.2	155.4										14
16	165.3	147.7	131.3	121.4									16
18	138.5	125.6	112.8	105.7	99.9								18
20	119.0	109.3	98.9	93.4	88.9	85.5							20
25	81.6	80.9	73.9	71.0	69.0	67.3	62.3						25
30	58.2	59.7	57.2	55.7	54.9	54.3	50.5	48.1	46.3				30
35		45.4	44.7	45.2	44.9	45.0	41.8	39.9	38.7	37.2			35
40		35.4	34.9	36.5	37.3	37.8	35.2	33.7	32.8	32.2	30.8	26.8	40
45		28.1	27.6	29.4	31.1	32.2	29.8	28.6	27.9	27.7	27.8	25.9	45
50			22.3	24.1	25.8	27.3	25.6	24.6	24.1	24.0	24.2	23.2	50
55			17.9	19.6	21.4	23.0	21.9	21.1	20.7	20.8	21.1	20.5	55
60				15.9	17.7	19.4	18.6	18.0	17.8	18.0	18.5	18.1	60
65				13.1	14.9	16.4	15.7	15.5	15.5	15.7	16.1	15.9	65
70				10.7	12.4	14.1	13.3	13.2	13.4	13.8	14.2	14.0	70
75					10.4	12.0	11.3	11.2	11.5	12.0	12.5	12.3	75
80					8.6	10.2	9.4	9.3	9.7	10.4	11.0	10.9	80
85					6.9	8.6	7.8	7.8	8.2	8.9	9.5	9.5	85
90						7.3	6.4	6.4	6.8	7.5	8.3	8.2	90
95						6.0	5.2	5.2	5.6	6.3	7.1	7.0	95
100						4.9	4.1	4.1	4.5	5.1	6.0	6.1	100
105									3.5	4.1	5.0	5.2	105
110									2.6	3.3	4.2	4.2	110
115										2.6	3.3	3.5	115
120												2.8	120
125													125
130													130
n	10	10	9	6	5	5	3	3	3	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#
Min	0	0	0	0	0	0	0	12	30	30	40	40	Min
Min + ft	34.5	48.74	63	77.21	91.38	105.41	119.62	130.79	127.19	139.49	133.18	142.63	Min + ft
Min + Klb	48.7	26.2	14	8.9	6.1	4.7	1.5	0	0	0	0	0	Min + Klb

(H) Main Boom Load Chart

Unit: Klb

0Klb | 22.0Klb | Extended | 0.57° | 360°

ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
10	208.9	206.0											10
12	196.6	168.2	143.7										12
14	154.4	135.3	117.8										14
16	125.1	112.0	98.9	91.7									16
18	104.0	94.5	84.3	79.1	75.4								18
20	88.8	81.7	73.3	69.5	66.7	64.4							20
25	60.1	59.1	53.6	51.9	50.7	50.0	45.9						25
30	41.5	43.3	40.4	39.8	39.7	39.8	36.5	34.4	33.3				30
35		32.0	31.1	31.3	31.7	32.3	29.6	28.1	27.2	26.8			35
40		24.1	23.6	24.8	25.8	26.5	24.3	23.0	22.4	22.4	22.4	21.8	40
45		18.3	17.9	19.6	21.0	22.1	20.0	18.9	18.7	18.7	19.0	18.4	45
50			13.6	15.4	17.1	18.5	16.6	15.8	15.6	15.7	16.1	15.8	50
55			10.1	11.9	13.6	15.3	13.7	13.0	12.9	13.2	13.6	13.4	55
60				9.0	10.7	12.5	11.3	10.6	10.6	11.1	11.5	11.3	60
65				6.8	8.4	10.2	9.2	8.8	8.8	9.2	9.7	9.4	65
70				4.9	6.5	8.3	7.5	7.1	7.1	7.5	8.1	8.0	70
75					4.8	6.6	5.9	5.5	5.6	6.1	6.8	6.7	75
80					3.4	5.2	4.5	4.1	4.3	4.9	5.6	5.4	80
85					2.2	4.0	3.1	2.9	3.1	3.8	4.4	4.4	85
90						2.8				2.8	3.4	3.4	90
95													95
100													100
n	10	10	7	5	4	4	3	2	2	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#
Min	0	0	0	0	0	0	28	38	50	50	50	55	Min
Min ft	34.5	48.74	63	77.21	91.38	105.41	104.69	103.83	92.37	101.5	110.49	104.81	Min ft
Min Klb	33.9	16.6	6.9	3.2	1.5	0.7	0	0	0	0	0	0	Min Klb

(H) Main Boom Load Chart

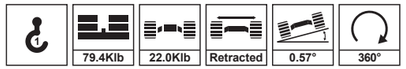
Unit: Klb

79.37Klb | 22.05Klb | Intermediate | 0.57° | 360°

ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
10	208.9	208.9											10
12	208.9	208.9	198.1										12
14	208.9	208.9	193.4										14
16	206.6	192.0	173.7	161.3									16
18	182.9	167.2	152.1	142.5	121.2								18
20	159.8	147.9	135.4	127.7	119.7	96.5							20
25	112.0	111.6	104.6	100.3	96.7	89.8	75.1						25
30	83.2	84.5	83.4	81.0	79.1	77.6	67.4	61.1	50.2				30
35		66.6	65.7	66.8	66.4	65.7	60.8	55.4	48.4	38.5			35
40		53.8	53.1	54.7	56.2	56.3	53.3	50.4	44.7	38.3	31.0	26.8	40
45		44.5	43.8	45.4	47.1	48.6	46.3	44.6	41.5	35.9	30.7	25.9	45
50			36.9	38.5	40.1	41.8	40.5	39.3	37.9	33.5	29.2	23.2	50
55			31.2	32.7	34.3	36.0	35.1	34.6	34.2	31.3	27.7	20.7	55
60				27.9	29.6	31.2	30.3	30.3	30.4	29.3	26.4	18.6	60
65				24.0	25.8	27.3	26.4	26.4	26.8	27.1	25.0	16.9	65
70				20.9	22.7	24.2	23.3	23.3	23.8	24.2	23.8	15.4	70
75					19.8	21.5	20.6	20.6	21.0	21.6	22.1	14.0	75
80					17.3	19.0	18.2	18.1	18.6	19.2	19.9	12.7	80
85					15.3	16.8	16.2	16.0	16.4	17.1	17.9	11.7	85
90						15.0	14.3	14.2	14.7	15.2	16.1	10.7	90
95						13.3	12.7	12.7	13.0	13.6	14.4	9.8	95
100						11.9	11.2	11.2	11.5	12.1	13.0	9.0	100
105							9.9	9.9	10.3	10.8	11.6	8.3	105
110							8.7	8.7	9.1	9.7	10.5	7.7	110
115							7.6	7.6	8.0	8.6	9.4	7.1	115
120								6.6	6.9	7.6	8.5	6.6	120
125								5.6	6.1	6.7	7.6	6.1	125
130								4.8	5.2	5.9	6.8	5.6	130
135									4.5	5.2	5.9	5.1	135
140									3.8	4.5	5.2	4.7	140
145										3.8	4.5	4.3	145
150										3.2	4.0	4.0	150
155										2.6	3.4	3.5	155
160											2.8	3.0	160
n	10	10	10	8	6	5	4	3	3	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#
Min	0	0	0	0	0	0	0	0	10	10	10	10	Min
Min ft	34.5	48.74	63	77.21	91.38	105.41	119.62	133.88	145.72	159.7	173.46	185.61	Min ft
Min Klb	49.8	32.1	20.9	16.5	13	10.8	6.6	4.1	0	0	0	0	Min Klb

(H) Main Boom Load Chart

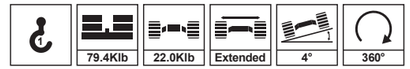
Unit: Klb



ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.4	184.2	196.5	
20	123.7		106.8										20
25	87.9	88.5	83.2	80.1									25
30	65.9	67.2	66.4	64.8	63.7	62.7	59.0	56.4	50.2				30
35		53.1	52.4	53.4	53.4	53.1	50.0	47.9	46.5	38.5			35
40		42.8	42.1	43.7	45.2	45.4	42.8	41.1	40.1	38.2	31.0	26.8	40
45		35.2	34.7	36.1	37.8	39.2	36.9	35.6	34.8	34.6	30.7	25.9	45
50			28.9	30.4	32.0	33.7	32.3	31.1	30.6	30.4	29.2	23.2	50
55			24.1	25.6	27.3	28.9	28.0	27.4	26.9	26.9	27.0	20.7	55
60				21.6	23.4	24.9	24.0	24.0	23.7	23.9	24.2	18.6	60
65				18.4	20.2	21.7	20.8	20.8	21.0	21.2	21.6	16.9	65
70				15.7	17.4	19.0	18.2	18.1	18.5	19.0	19.4	15.4	70
75					15.0	16.6	15.9	15.8	16.1	16.8	17.4	14.0	75
80					12.9	14.5	13.8	13.8	14.1	14.7	15.6	12.7	80
85					11.1	12.8	12.0	12.0	12.4	13.1	13.7	11.7	85
90						11.2	10.4	10.4	10.9	11.5	12.2	10.7	90
95						9.8	9.0	9.0	9.5	10.1	10.8	9.8	95
100						8.6	7.7	7.7	8.2	8.8	9.6	9.0	100
105							6.6	6.6	7.0	7.7	8.5	8.3	105
110							5.6	5.6	6.0	6.7	7.5	7.5	110
115							4.7	4.7	5.1	5.8	6.5	6.6	115
120								3.8	4.3	4.9	5.6	5.8	120
125								3.0	3.4	4.1	5.0	5.0	125
130								2.3	2.8	3.4	4.1	4.3	130
135										2.8	3.5	3.6	135
140											3.0	3.0	140
145													145
150													150
n	6	5	6	4	4	3	3	3	3	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#
Min	0	0	0	0	0	0	0	0	20	20	20	20	Min
Min ft	34.5	48.74	63	77.21	91.38	105.41	119.62	133.88	138.68	152.03	165.16	176.75	Min ft
Min Klb	49.8	32.1	20.2	14	10.6	8.5	4.6	2.2	0	0	0	0	Min Klb

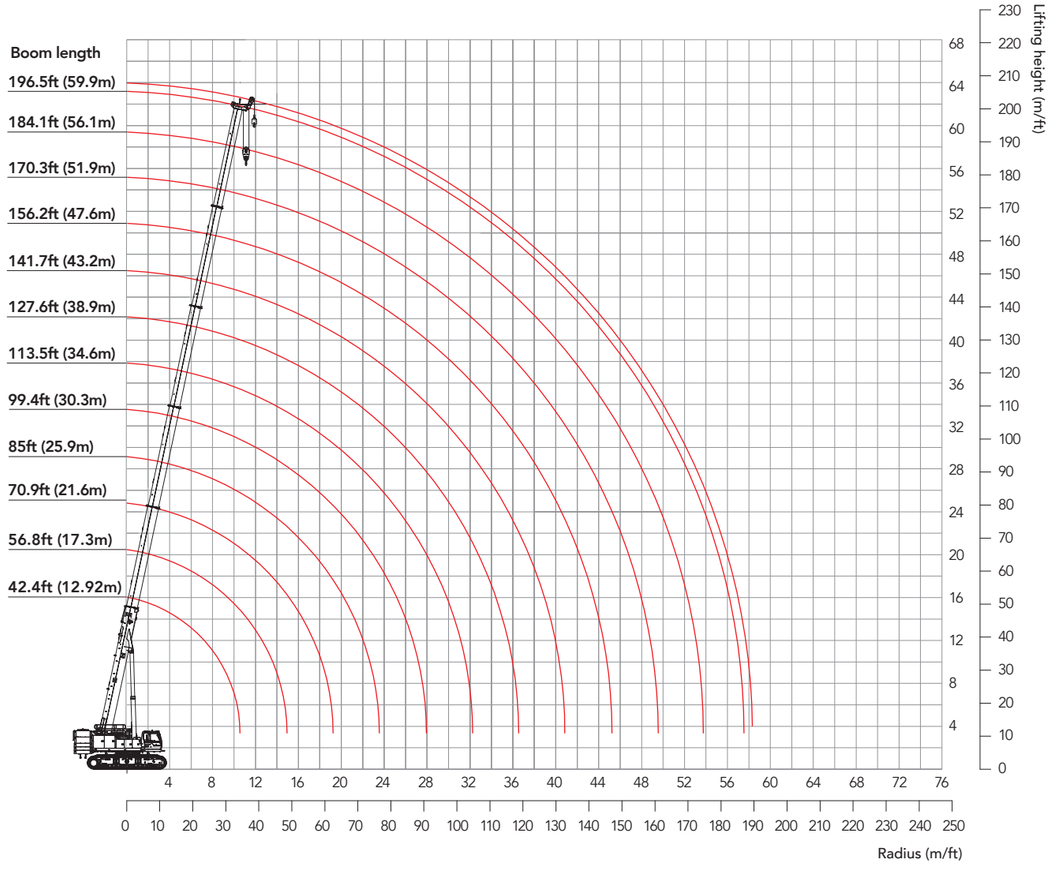
(H) Main Boom Load Chart

Unit: Klb



ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
10	208.9	150.1											10
12	208.9	150.1	105.8										12
14	208.9	150.1	105.8										14
16	204.3	150.1	105.8	75.1									16
18	183.0	150.1	105.8	75.1	49.1								18
20	158.0	142.1	105.8	75.1	49.1	39.2							20
25	115.5	108.8	98.9	75.1	49.1	39.2	31.3						25
30	89.3	84.7	79.5	74.2	49.1	39.2	31.3	25.1	20.0				30
35		68.6	64.5	63.5	49.1	39.2	31.3	25.1	20.0	14.9			35
40		57.0	53.7	53.1	49.0	39.2	31.3	25.1	20.0	14.9	13.0	12.1	40
45		48.6	45.3	45.1	45.3	39.2	31.3	25.1	20.0	14.9	13.0	12.1	45
50			39.0	39.0	39.4	38.0	31.3	25.1	20.0	14.9	13.0	12.1	50
55			33.8	33.8	34.4	35.0	30.8	25.1	20.0	14.9	13.0	12.1	55
60				29.5	30.1	30.8	29.3	25.1	20.0	14.9	13.0	12.1	60
65				26.0	26.6	27.5	25.9	24.9	20.0	14.9	13.0	12.1	65
70				23.2	23.8	24.7	23.2	22.7	20.0	14.9	13.0	11.9	70
75					21.3	22.2	20.8	20.3	19.3	14.9	13.0	11.3	75
80					19.1	20.0	18.7	18.2	18.0	14.9	13.0	10.3	80
85					17.0	18.1	16.8	16.2	16.2	14.9	13.0	9.5	85
90						16.4	15.1	14.6	14.6	14.6	13.0	8.8	90
95						15.0	13.7	13.2	13.2	13.7	13.0	8.1	95
100						13.7	12.3	11.9	11.9	12.4	12.6	7.5	100
105							11.0	10.7	10.8	11.2	11.6	7.0	105
110							10.0	9.6	9.7	10.0	10.6	6.5	110
115							9.1	8.6	8.7	9.1	9.6	6.0	115
120								7.8	7.8	8.2	8.7	5.6	120
125								7.0	7.0	7.4	7.8	5.2	125
130								6.3	6.3	6.6	7.2	4.7	130
135									5.6	5.8	6.5	4.3	135
140									4.9	5.2	5.8	4.0	140
145										4.7	5.2	3.7	145
150										4.2	4.7	3.5	150
155										3.7	4.2	3.2	155
160											3.7	3.0	160
165											3.2	2.8	165
170											2.9	2.6	170
175												2.3	175
n	6	5	6	4	4	3	3	3	3	2	2	2	n
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#

(HC) Auxiliary Lifting Sheave Range Diagram



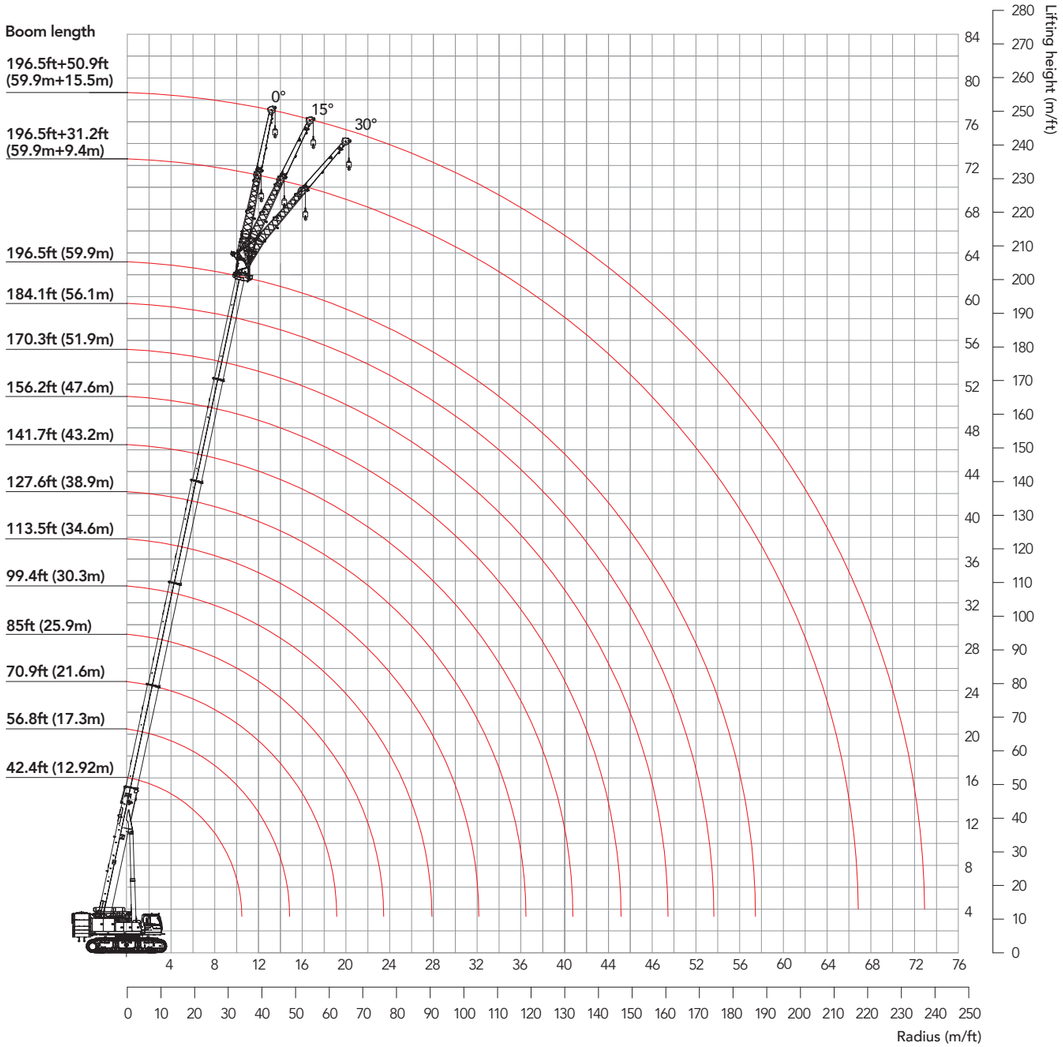
(HC) Auxiliary Lifting Sheave Load Chart

Unit: Klb

79.4Klb | 22.0Klb | Extended | 0.57° | 360°

ft	Main Boom Length (ft)												ft
	42.4	56.6	70.9	85.1	99.3	113.3	127.5	141.8	156.0	170.2	184.2	196.5	
10	20.9	20.9											10
12	20.9	20.9											12
14	20.9	20.9	20.9										14
16	20.9	20.9	20.9										16
18	20.9	20.9	20.9	20.9									18
20	20.9	20.9	20.9	20.9	20.9								20
25	20.9	20.9	20.9	20.9	20.9	20.9							25
30	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9					30
35		20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9			35
40		20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	40
45		20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	45
50			20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.6	50
55			20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	19.4	55
60				20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	17.3	60
65				20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	15.6	65
70				20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	14.1	70
75					20.6	20.9	20.9	20.9	20.9	20.9	20.7	12.6	75
80					19.6	20.5	20.3	20.3	20.3	20.5	20.1	11.4	80
85					17.1	18.8	17.9	17.9	18.2	18.8	18.8	10.4	85
90						16.6	15.9	15.8	16.1	16.8	17.4	9.4	90
95						14.8	14.0	13.9	14.3	15.0	15.8	8.5	95
100						13.1	12.3	12.3	12.7	13.4	14.0	7.7	100
105							10.7	10.7	11.2	11.9	12.5	7.0	105
110							9.4	9.4	9.8	10.5	11.2	6.3	110
115							8.2	8.2	8.6	9.3	9.9	5.8	115
120								7.1	7.5	8.2	8.8	5.3	120
125								6.1	6.5	7.2	7.8	4.8	125
130								5.0	5.5	6.2	6.8	4.3	130
135									4.6	5.3	5.9	3.8	135
140									3.8	4.4	5.2	3.3	140
145										3.6	4.5	3.0	145
150										2.9	3.8	2.7	150
155										2.4	3.1	2.3	155
160											2.6	2.0	160
165											2.0	1.7	165
170											1.4	1.5	170
175												1.1	175
Hn	1	1	1	1	1	1	1	1	1	1	1	1	Hn
2#	0	0	46	46	46	46	92	92	92	92	92	100	2#
3#	0	46	46	46	46	46	46	92	92	92	92	100	3#
4#	0	0	0	46	46	46	46	46	92	92	92	100	4#
5#	0	0	0	0	46	46	46	46	46	92	92	100	5#
6#	0	0	0	0	0	46	46	46	46	46	92	100	6#

(FJ) Fly Jib Range Diagram



(FJ) Fly Jib Load Chart

Unit: Klb



ft	Main Boom Length (ft)			ft
	196.5			
	0°	15°	30°	
50	14.3			50
55	13.9			55
60	13.0	11.9		60
65	12.2	11.9		65
70	12.1	11.6	10.7	70
75	11.9	11.4	10.3	75
80	11.6	11.3	10.0	80
85	11.6	11.0	9.7	85
90	11.5	10.7	9.3	90
95	11.2	10.1	9.0	95
100	10.9	9.6	8.7	100
105	10.5	9.4	8.5	105
110	10.2	9.3	8.5	110
115	9.4	9.0	8.4	115
120	8.5	8.6	8.3	120
125	7.6	8.3	8.1	125
130	6.8	7.4	7.6	130
135	6.2	6.7	6.9	135
140	5.8	6.0	6.4	140
145	5.6	5.4	6.0	145
150	4.9	4.9	5.4	150
155	4.4	4.4	4.8	155
160	3.9	4.1	4.3	160
165	3.4	3.8	3.8	165
170	2.9	3.3	3.3	170
175		3.0	2.8	175
n	1	1	1	n
2#	100	100	100	2#
3#	100	100	100	3#
4#	100	100	100	4#
5#	100	100	100	5#
6#	100	100	100	6#

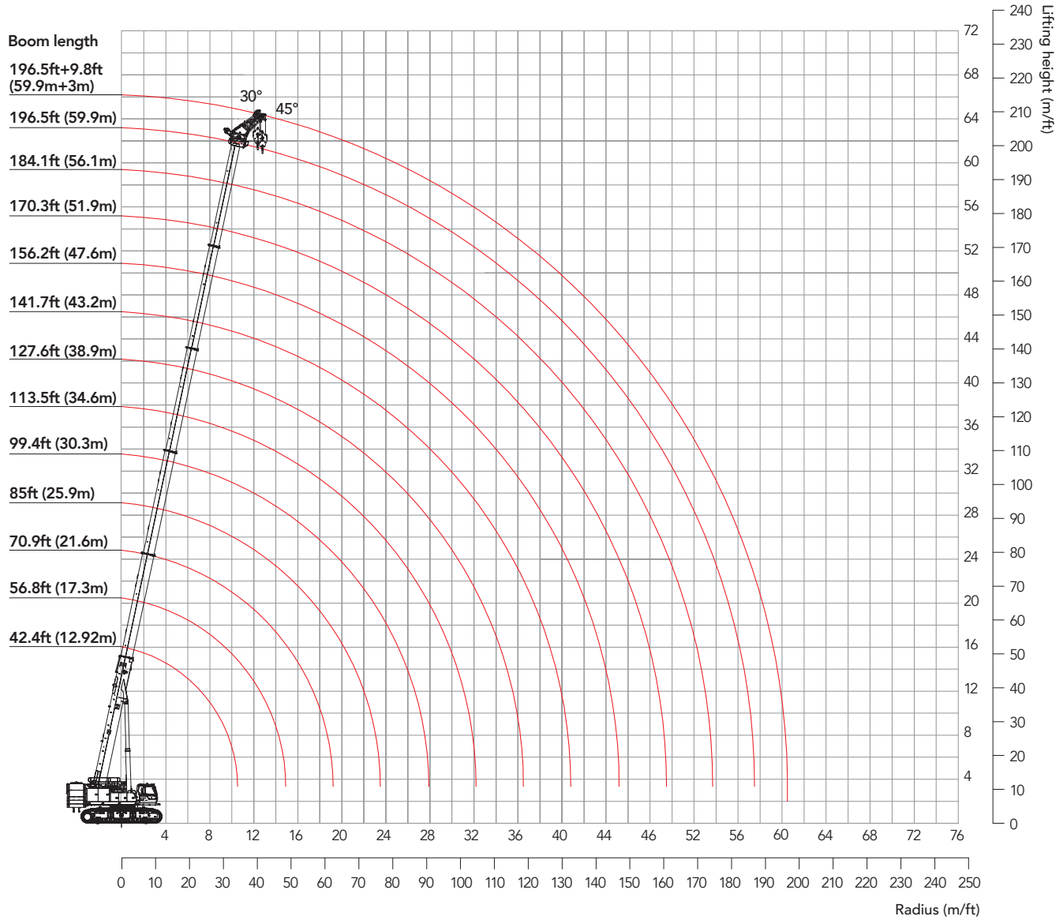
(FJ) Fly Jib Load Chart

Unit: Klb



ft	Main Boom Length (ft)			ft
	196.5			
	0°	15°	30°	
55	7.7			55
60	7.6			60
65	7.5			65
70	7.4	7.0		70
75	7.4	6.9		75
80	7.2	6.8	6.6	80
85	7.2	6.8	6.6	85
90	7.2	6.8	6.6	90
95	7.1	6.7	6.6	95
100	7.0	6.6	6.6	100
105	7.0	6.6	6.6	105
110	7.0	6.6	6.4	110
115	6.9	6.4	6.3	115
120	6.8	6.3	6.3	120
125	6.8	6.3	6.3	125
130	6.6	6.3	6.3	130
135	6.3	6.3	6.3	135
140	6.0	6.1	6.2	140
145	5.8	5.7	5.9	145
150	5.1	5.5	5.5	150
155	5.0	5.5	5.3	155
160	4.8	5.0	5.2	160
165	4.3	4.3	5.0	165
170	3.8	4.2	4.6	170
175	3.3	3.7	4.1	175
180	2.8	3.2	3.7	180
185	2.6	2.8	3.3	185
190	2.4	2.6	2.8	190
195		2.4	2.5	195
卷	1	1	1	卷
2#	100	100	100	2#
3#	100	100	100	3#
4#	100	100	100	4#
5#	100	100	100	5#
6#	100	100	100	6#

(FJh) Heavy Duty Jib Range Diagram



(FJh) Heavy Duty Jib Load Chart



Unit: Klb

ft	Main Boom Length (ft)												ft
	42.39		56.63		56.59		56.56		70.9		70.87		
	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	
12	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5					12
14	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	14
16	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	16
18	76.7	74.6	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	18
20	74.5	72.6	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	20
25	71.0	69.7	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	25
30	67.4		73.9	72.0	73.9	72.0	73.9	72.0	78.5	77.2	78.5	77.2	30
35			70.3	69.1	70.3	69.1	70.3	69.1	75.7	73.8	75.7	73.8	35
40			66.6		66.8		67.0		66.5	67.6	68.7	69.5	40
45									55.0		56.8		45
50									46.4		48.3		50
n	4	4	4	4	4	4	4	4	4	4	4	4	n
2#	0	0	0	0	0	0	0	0	46	46	0	0	2#
3#	0	0	46	46	0	0	0	0	46	46	46	46	3#
4#	0	0	0	0	46	46	0	0	0	0	46	46	4#
5#	0	0	0	0	0	0	46	46	0	0	0	0	5#
6#	0	0	0	0	0	0	0	0	0	0	0	0	6#

ft	Main Boom Length (ft)												ft
	70.54		85.1		85.07		84.78		99.34		99.28		
	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	
14	78.5	78.5											14
16	78.5	78.5											16
18	77.2	78.5											18
20	74.0	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.4	78.4	78.4	78.4	20
25	68.4	78.5	78.5	78.5	78.5	78.5	74.2	74.2	78.4	78.4	78.4	78.4	25
30	61.7	77.4	78.5	78.5	78.5	78.5	67.8	67.8	75.4	75.4	75.4	75.4	30
35	55.5	73.1	78.5	77.8	78.5	77.8	62.3	62.3	67.8	67.8	67.8	67.8	35
40	50.1	69.3	66.8	68.0	68.0	69.1	56.6	56.6	61.1	61.1	61.1	61.1	40
45	45.7		55.7	56.4	56.6	57.3	51.8	51.8	54.3	54.5	54.5	54.5	45
50	43.6		47.0	47.7	47.9	48.6	48.4	48.8	46.8	47.3	47.6	48.0	50
55			39.9		40.8		43.9		39.9	40.5	41.0	41.6	55
60			34.1		35.0		38.1		34.1		35.2		60
65			29.6		30.3		33.4		29.4		30.5		65
70									25.4		26.5		70
n	4	4	4	4	4	4	4	4	4	4	4	4	n
2#	0	0	46	46	0	0	0	0	46	46	46	46	2#
3#	0	0	46	46	92	92	0	0	92	92	46	46	3#
4#	0	0	46	46	46	46	46	46	46	46	46	46	4#
5#	46	46	0	0	0	0	46	46	0	0	46	46	5#
6#	46	46	0	0	0	0	46	46	0	0	0	0	6#

(FJh) Heavy Duty Jib Load Chart



Unit: Klb

ft	Main Boom Length (ft)												ft
	99.05		113.55		113.32		113.29		127.53		127.49		
	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	
20	78.4	78.4											20
25	77.1	77.1	59.3	59.3	59.3	59.3	59.3	59.3					25
30	71.8	71.8	59.3	59.3	59.3	59.3	54.9	54.9	59.2	59.2	57.1	57.1	30
35	66.7	66.7	59.1	59.1	59.3	59.3	49.2	49.2	56.5	56.5	51.5	51.5	35
40	61.9	61.9	54.4	54.4	59.3	59.3	43.4	43.4	51.1	51.1	46.8	46.8	40
45	57.0	57.0	49.2	49.2	55.6	56.3	38.3	38.3	46.6	46.6	43.0	43.0	45
50	50.0	50.4	44.5	45.1	48.4	49.3	35.8	35.8	43.8	44.2	40.9	40.9	50
55	43.2	43.8	39.6	40.4	42.0	42.7	33.1	33.1	39.9	40.5	38.2	38.2	55
60	37.4		34.3	35.0	36.3	36.8	29.8	29.8	34.8	35.5	34.6	34.7	60
65	32.7		29.6	30.1	31.6	32.1	27.0	27.0	30.5	31.1	31.2	31.6	65
70	28.9		25.7	26.1	27.8	28.2	24.7	24.7	26.7	27.4	27.4	27.9	70
75			22.2		24.4		22.7		23.3	23.8	23.9	24.4	75
80			19.1		21.3		20.9		20.2		20.9		80
85			16.4		18.6		19.2		17.5		18.2		85
90									15.3		16.0		90
n	4	4	3	3	3	3	3	3	3	3	3	3	n
2#	0	0	92	92	46	46	0	0	92	92	46	46	2#
3#	46	46	46	46	46	46	92	92	46	46	92	92	3#
4#	46	46	46	46	46	46	46	46	46	46	46	46	4#
5#	46	46	46	46	46	46	46	46	46	46	46	46	5#
6#	46	46	0	0	46	46	46	46	46	46	46	46	6#

ft	Main Boom Length (ft)												ft
	127.3		141.77		141.47		141.3		156.0		155.94		
	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	
30	50.0	50.0	50.2	50.2	41.3	41.3	56.2	56.2					30
35	45.8	45.8	45.7	45.7	37.7	37.7	51.8	51.8	41.4	41.4	40.1	40.1	35
40	42.3	42.3	41.6	41.6	34.7	34.7	47.0	47.0	41.2	41.2	37.5	37.5	40
45	39.3	39.3	38.3	38.3	32.1	32.1	43.0	43.0	39.1	39.1	34.6	34.6	45
50	37.7	37.7	36.4	36.4	30.7	30.7	40.8	40.8	37.4	37.4	33.0	33.0	50
55	35.8	35.8	34.3	34.3	29.2	29.2	37.7	38.0	35.4	35.4	31.3	31.3	55
60	33.6	33.6	31.6	31.6	27.4	27.4	33.5	34.2	32.5	32.6	29.1	29.1	60
65	31.7	31.7	28.7	28.7	25.7	25.7	29.3	30.0	28.8	29.4	27.1	27.1	65
70	28.5	28.7	26.3	26.3	24.3	24.3	25.9	26.5	25.4	26.1	24.8	24.8	70
75	25.3	25.6	23.8	24.0	23.1	23.1	22.8	23.4	22.5	23.0	22.7	22.7	75
80	22.2		21.1	21.5	21.8	21.8	20.0	20.4	19.9	20.3	20.8	20.9	80
85	19.5		18.4	18.9	19.9	20.3	17.3	17.7	17.5	17.9	18.8	19.2	85
90	17.3		16.2	16.5	17.7	18.0	15.1	15.5	15.3	15.8	16.6	17.1	90
95			14.1		15.7		13.1		13.3	13.7	14.6	15.0	95
100			12.2		13.8		11.3		11.5	11.8	12.7	13.1	100
105									9.9		11.2		105
110									8.4		9.7		110
n	3	3	3	3	3	3	2	2	2	2	2	2	n
2#	46	46	92	92	46	46	46	46	92	92	46	46	2#
3#	46	46	92	92	92	92	46	46	92	92	92	92	3#
4#	46	46	46	46	92	92	46	46	92	92	92	92	4#
5#	46	46	46	46	46	46	92	92	46	46	92	92	5#
6#	92	92	46	46	46	46	92	92	46	46	46	46	6#

(FJh) Heavy Duty Jib Load Chart

Unit: Klb



ft	Main Boom Length (ft)										ft
	155.71		170.21		169.95		184.19		196.52		
	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	
35	35.9	35.9									35.0
40	32.9	32.9	36.4	36.4	32.2	32.2	29.7	29.7			40.0
45	30.4	30.4	34.7	34.7	30.6	30.6	29.6	29.6	20.7	20.7	45.0
50	29.1	29.1	33.5	33.5	29.3	29.3	28.8	28.8	20.7	20.7	50.0
55	27.6	27.6	31.9	31.9	27.9	27.9	27.6	27.6	20.7	20.7	55.0
60	25.6	25.6	29.8	29.8	26.1	26.1	26.2	26.2	20.3	20.3	60.0
65	24.0	24.0	28.0	28.0	24.6	24.6	24.8	24.8	18.1	18.1	65.0
70	22.6	22.6	25.2	25.5	23.2	23.2	23.6	23.6	16.3	16.3	70.0
75	21.3	21.3	22.5	22.9	21.8	21.8	22.1	22.2	14.8	14.8	75.0
80	20.2	20.2	19.9	20.3	20.3	20.3	20.1	20.5	13.5	13.5	80.0
85	19.0	19.0	17.5	17.9	18.6	18.6	17.7	18.2	12.4	12.4	85.0
90	17.5	17.6	15.5	15.9	17.0	17.2	15.9	16.1	11.3	11.3	90.0
95	15.7	16.0	13.7	14.0	15.3	15.5	14.0	14.3	10.3	10.3	95.0
100	13.8	14.2	12.0	12.2	13.5	13.8	12.3	12.7	9.4	9.4	100.0
105	12.1		10.3	10.5	11.9	12.1	10.7	11.2	8.8	8.8	105.0
110	10.7		8.8	9.2	10.3	10.6	9.6	9.8	8.1	8.1	110.0
115			7.5		8.9		8.3	8.5	7.4	7.4	115.0
120			6.3		7.7		7.0	7.2	6.7	6.8	120.0
125							5.8		5.8	6.1	125.0
130							4.8		4.8	5.0	130.0
135									3.9		135.0
140									3.1		140.0
n	2	2	2	2	2	2	2	2	2	2	n
2#	46	46	92	92	46	46	92	92	100	100	2#
3#	46	46	92	92	92	92	92	92	100	100	3#
4#	92	92	92	92	92	92	92	92	100	100	4#
5#	92	92	92	92	92	92	92	92	100	100	5#
6#	92	92	46	46	92	92	92	92	100	100	6#

Service

When we say that SANY machines are built to endure, we're really talking about service. SANY equipment is intentionally designed to be easily and efficiently serviced, with features such as wide compartment doors and easy access to make maintenance more efficient. Because ease of service means back in service.

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